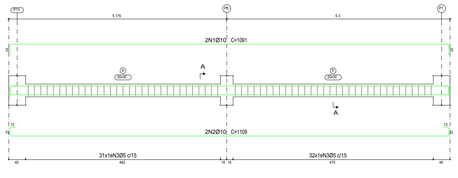
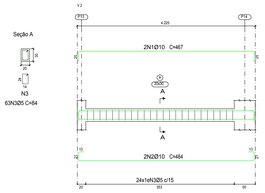
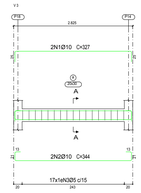
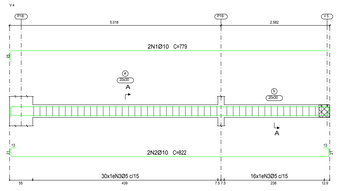
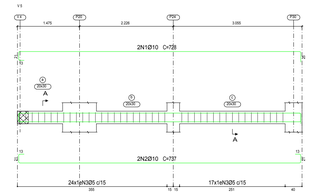
Sub solo
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:50
Escala aberturas 1:50

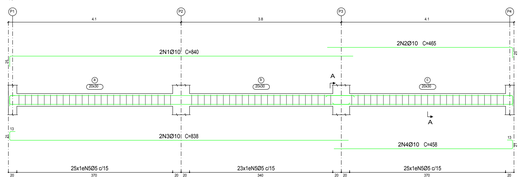


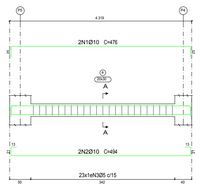


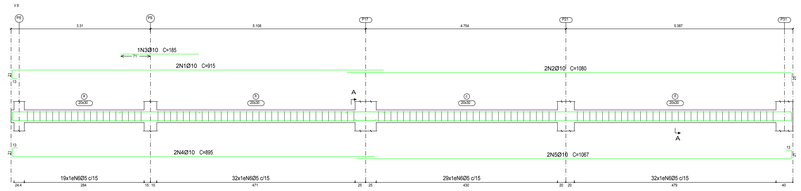






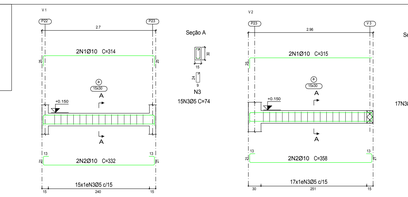


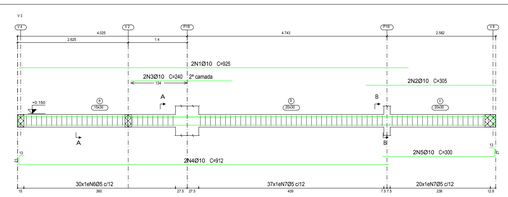


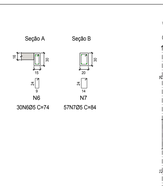


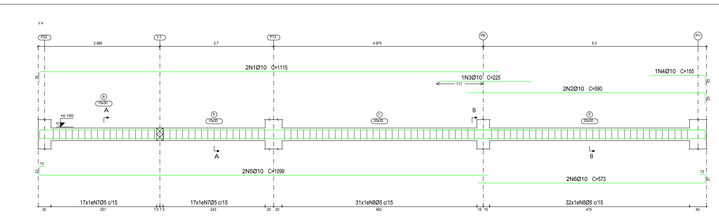
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø10	2	40 / 1041 / 15	1091	2182	13.4	
	2	Ø10	2	15 / 1041 / 15	1109	2218	13.7	
	3	Ø5	63	74 / 14	84	5292		8.3
					Total+10%:		29.8	9.1
V 2	1	Ø10	2	40 / 417 / 15	467	934	5.8	
	2	Ø10	2	15 / 417 / 15	484	968	6.0	
	3	Ø5	24	74 / 14	84	2016		3.2
					Total+10%:		13.0	3.5
V 3	1	Ø10	2	40 / 377 / 15	327	654	4.0	
	2	Ø10	2	15 / 377 / 15	344	688	4.2	
	3	Ø5	17	74 / 14	84	1428		2.2
					Total+10%:		9.0	2.4
V 4	1	Ø10	2	40 / 754 / 15	779	1558	9.6	
	2	Ø10	2	15 / 754 / 15	822	1644	10.1	
	3	Ø5	46	74 / 14	84	3864		6.1
					Total+10%:		21.7	6.7
V 5	1	Ø10	2	40 / 675 / 15	728	1456	9.0	
	2	Ø10	2	15 / 675 / 15	737	1474	9.1	
	3	Ø5	41	74 / 14	84	3444		5.4
					Total+10%:		19.9	5.9
V 6	1	Ø10	2	40 / 815 / 15	840	1680	10.4	
	2	Ø10	2	40 / 446 / 15	465	930	5.7	
	3	Ø10	2	15 / 804 / 15	838	1676	10.3	
	4	Ø10	2	40 / 424 / 15	458	916	5.6	
	5	Ø5	73	74 / 14	84	6132		9.6
					Total+10%:		35.2	10.6
V 7	1	Ø10	2	40 / 426 / 15	476	952	5.9	
	2	Ø10	2	15 / 426 / 15	494	988	6.1	
	3	Ø5	23	74 / 14	84	1932		3.0
					Total+10%:		13.2	3.3
V 8	1	Ø10	2	40 / 861 / 15	915	1830	11.3	
	2	Ø10	2	40 / 1005 / 15	1080	2160	13.3	
	3	Ø10	1	185	185	185	1.1	
	4	Ø10	2	15 / 861 / 15	895	1790	11.0	
	5	Ø10	2	40 / 1033 / 15	1067	2134	13.2	
	6	Ø5	112	74 / 14	84	9408		14.8
					Total+10%:		54.9	16.3
					Ø5:		0.0	57.8
					Ø10:		196.7	0.0
					Total:		196.7	57.8

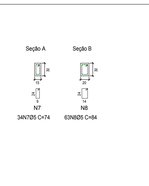
Terreo
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:50
Escala aberturas 1:50

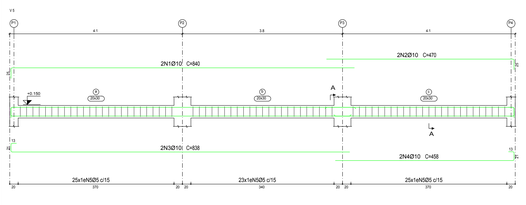


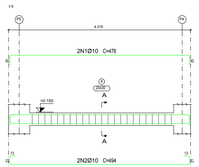


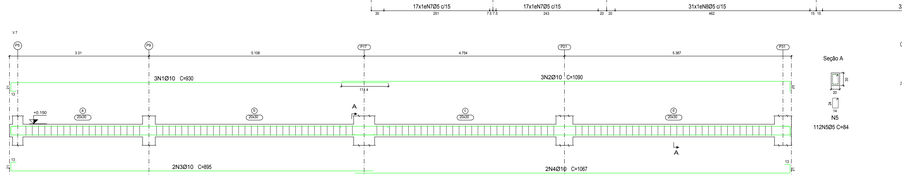


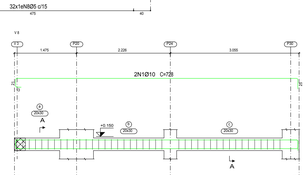


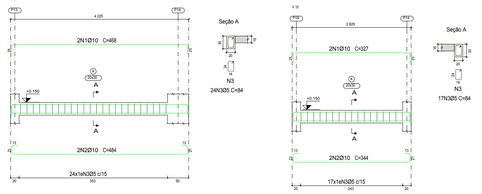






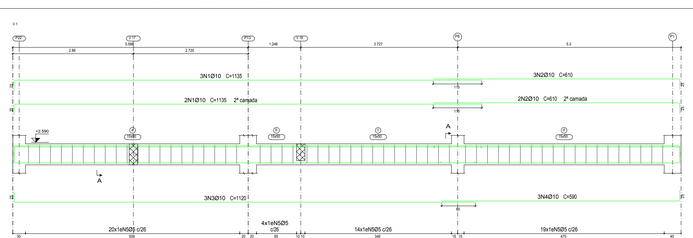


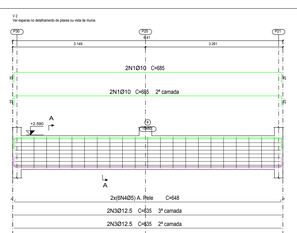


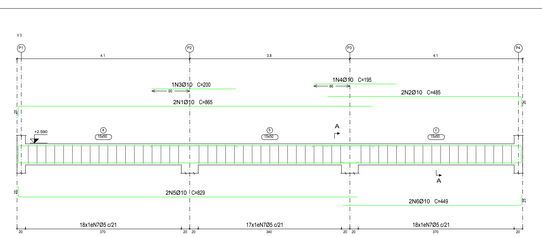


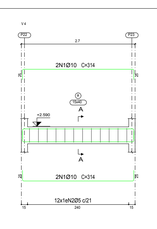
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø10	2	40 / 295 / 15	314	628	3.9	
	2	Ø10	2	15 / 294 / 15	332	664	4.1	
	3	Ø5	15	74 / 14	74	1110		1.7
					Total+10%:		8.8	1.9
V 2	1	Ø10	2	40 / 295 / 15	315	630	3.9	
	2	Ø10	2	15 / 290 / 15	358	716	4.4	
	3	Ø5	17	74 / 14	74	1258		2.0
					Total+10%:		9.1	2.2
V 3	1	Ø10	2	505	925	1850	11.4	
	2	Ø10	2	305	305	610	3.8	
	3	Ø10	2	240	240	480	3.0	
	4	Ø10	2	15 / 819 / 15	912	1824	11.2	
	5	Ø10	2	40 / 295 / 15	300	600	3.7	
	6	Ø5	30	74 / 14	74	2220		3.5
	7	Ø5	57	74 / 14	84	4788		7.5
					Total+10%:		38.4	12.1
V 4	1	Ø10	2	40 / 1066 / 15	1115	2230	13.7	
	2	Ø10	2	40 / 585 / 15	590	1180	7.3	
	3	Ø10	1	225	225	225	1.4	
	4	Ø10	1	155	155	155	1.0	
	5	Ø10	2	15 / 1065 / 15	1099	2198	13.5	
	6	Ø10	2	40 / 559 / 15	573	1146	7.1	
	7	Ø5	34	74 / 14	74	2516		4.0
	8	Ø5	63	74 / 14	84	5292		8.3
					Total+10%:		48.4	13.5
V 5	1	Ø10	2	40 / 815 / 15	840	1680	10.4	
	2	Ø10	2	40 / 445 / 15	470	940	5.8	
	3	Ø10	2	15 / 804 / 15	838	1676	10.3	
	4	Ø10	2	40 / 424 / 15	458	916	5.6	
	5	Ø5	73	74 / 14	84	6132		9.6
					Total+10%:		35.3	10.6
V 6	1	Ø10	2	40 / 426 / 15	476	952	5.9	
	2	Ø10	2	15 / 426 / 15	494	988	6.1	
	3	Ø5	23	74 / 14	84	1932		3.0
					Total+10%:		13.2	3.3
V 7	1	Ø10	3	40 / 865 / 15	930	2790	17.2	
	2	Ø10	3	40 / 1065 / 15	1090	3270	20.2	
	3	Ø10	2	15 / 861 / 15	895	1790	11.0	
	4	Ø10	2	40 / 1033 / 15	1067	2134	13.2	
	5	Ø5	112	74 / 14	84	9408		14.8
					Total+10%:		67.8	16.3
V 8	1	Ø10	2	40 / 675 / 15	728	1456	9.0	
	2	Ø10	2	15 / 675 / 15	737	1474	9.1	
	3	Ø5	41	74 / 14	84	3444		5.4
					Total+10%:		19.9	5.9
V 9	1	Ø10	2	40 / 417 / 15	468	936	5.8	
	2	Ø10	2	15 / 417 / 15	484	968	6.0	
	3	Ø5	24	74 / 14	84	2016		3.2
					Total+10%:		13.0	3.5
V 10	1	Ø10	2	40 / 377 / 15	327	654	4.0	
	2	Ø10	2	15 / 371 / 15	344	688	4.2	
	3	Ø5	17	74 / 14	84	1428		2.2
					Total+10%:		9.0	2.4
					Ø5:		0.0	71.7
					Ø10:		260.9	0.0
					Total:		260.9	71.7

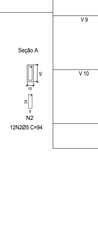
Laje e frente
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:50
Escala aberturas 1:50

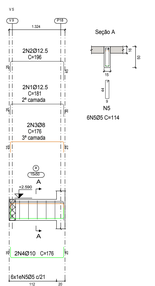


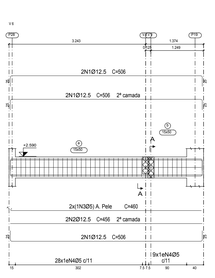


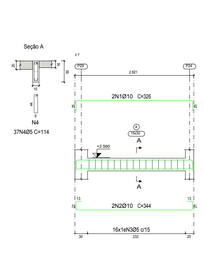


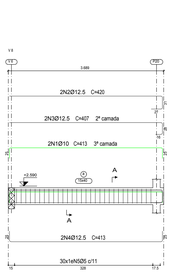


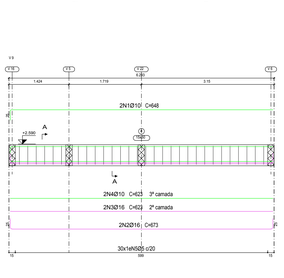


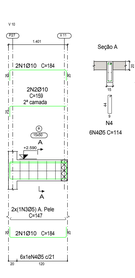


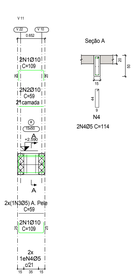












PREFEITURA:

CREA:

BOMBEIRO OU NATURATINS:

PROJETO ESTRUTURAL

Prancha: **04/10**

OBRA PUBLICA

OBRA: PALCO

CIDADE: PIUM - TO

PROPRIETÁRIO: Prefeitura Municipal de Pium- TO

ENDEREÇO: Praça Neco Baiano, Centro

QUADRO DE AREAS	Proprietário	Assinatura:	
		Nome:	Prefeitura Municipal de Pium - TO
Conforme projeto arquitetônico	Autor do Projeto	Assinatura:	
	ART:	Nome:	ALDO JENIOR MARTINS COELHO Engenheiro Civil
	CREA: 317202-TO		
	Resp. Técnico.	Assinatura:	
	ART:	Nome:	
ESCALA INDICADA			

CONTEÚDO:
- Detalhes de Vigas
- Lista de materiais

Revisão	Descrição Revisão	Aprovado	Data